

Decide whether the following statements are correct or incorrect. If incorrect, explain why or change the statement to make it correct.

1. Meteors are falling stars.
2. The galaxy is crowded.
3. The sun is always directly south at 12:00 noon.
4. Rain comes from clouds sweating.
5. Color is a property of an object, and is independent of the illuminating light and the receiver (eye).
6. Positively charged objects have gained protons (not deficient in electrons).
7. Gravitational forces are stronger than electrostatic forces.
8. An object at rest has no energy.
9. Gravitational potential energy depends only on the height of an object.
10. The motion of an object is always in the direction of the net force applied to the object.
11. Acceleration always occurs in the same direction as an object is moving.
12. Heat is not energy.
13. Heat and temperature are the same.
14. Light is associated with either a source or its effects. Light does not exist independently in space (light does not "travel").
15. An object is "seen" because light shines on it. Light is a necessary condition for seeing an object.

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16. When a wave moves through a medium, particles of the medium move along with the wave.
17. The size of the image depends on the size (diameter) of the lens.
18. Gamma rays, x-rays, ultraviolet light, visible light, infrared light, microwaves and radio waves are all very different entities.
19. When two pulses, traveling in opposite directions along a spring or rope meet, they bounce off each other and go back in the opposite direction.
20. Larger magnets are stronger than smaller magnets.
21. The magnetic pole of the earth in the northern hemisphere is a north pole, and the pole in the southern hemisphere is a south pole.
22. Any quantity can be measured as accurately as you want.
23. Mass is a quantity that you get by weighing an object.
24. Rockets in space require a constant force.
25. The amount of daylight increases each day of summer.
26. Different countries see different phases of the moon on the same day.
27. Phases of the moon are caused by a shadow from the earth.
28. Seasons are caused by the earth's distance from the sun.
29. The earth is flat.